```
MIRIANASHVILI, G.M.; KAVILADZE, M.Sh.; ABASHIDZE, I.V.

Ion source for the exact measurement of isotopic relations in a .id-
phase specimens. Soob. AN Gruz. SSR 32 no.2:311-317 *63.

MIRA i8:1;

1. Tbilisskiy gosudarstvennyy universitet. Submitted January 4, 1963.
```

MIRIANASHVILI. G.Z.

Height of rooms in southern districts; data from nicroclimatic studies in Tiflis. Soob.AM Gruz.SSR 23 no.3: 305-311 S '59. (MIRA 13:3)

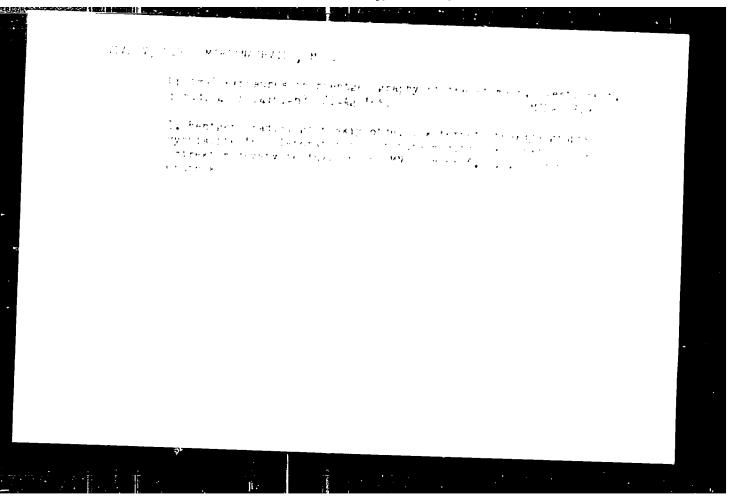
1. Otdel tipisatsii shilishcha v usloviyakh Gruzinskoy SSR MIGI'a i AS k Kh SSSR i Moskovskiy Arkhitekturnyy institut. Predstavleno chlenow-korrespondentom Akademii O.D.Oniashvili. (Tiflis--Swellings--Heating and ventilation)

MIRIANASHVILI, K. A.

7901. MIRIANASHVILI, K. A. Lecheniye onikhomikozov. tbilisi, Gruzmedgiz, 1954. 14 S. 20 sm. 3.000 EKZ. Bespl.--Na gruz. yaz.--(55-3824)

616.5: 616.969

SO: Knizhuaya Letopis', Vol. 7, 1955



MIRIANISHVILI, M.M.

Relativistic magnetic mement of charged particles. Soob.AN Gruz. SSR 8 me.9/10:613-618 47. (MIRA 9:7)

1.Akademiya nauk Gruzinskey SSR, Institut fiziki i geofiziki, Tbilisi. Predstavlene deystvitel'nym chlemem Akademii I.N.Vekua. (Particles, Elementar) (Nuclear mements)

#### "APPROVED FOR RELEASE: Wednesday, June 21, 2000

CIA-RDP86-00513R001134

11 11 KING A 344 (KI /1/ 9)

Category : USSR/Theoretical Physics - Quantum Field Theory

в-6

Abs Jour : Ref Zhur - Fizika, No 1, 1957 No 215

Author : Ivanenko, D. and Mirianashvili, M.

Inst : Moscow State University

Title : Nonlinear Generalization of the Dirac Spinor Equation

Orig Pub : Dokl. AN. SSSR, 1956, 105, No 3, 413-414

Abstract . Examination of nonlinear effects in a classical spinor field  $\psi$  (x),

caused by interaction of a certain quantum spinor field  $\times$  (x) with vacuum. The Lagrangian  $\cdot$  of the interaction between the field is selected in the form of a product of pseudo-scalar "currents". L'=-g//x\floot\flood\floot\f

Card : 1/2

Category : USSR/Theoretical Physics - Quantum Field Theory

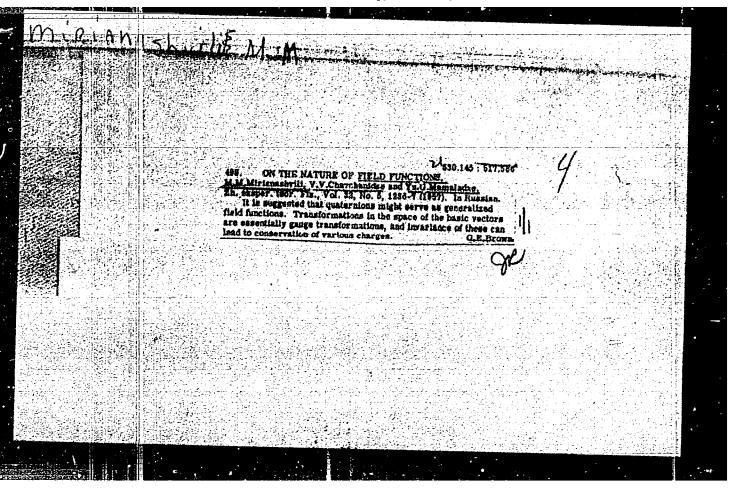
B-6

Abs Jour : Ref Zhur - Fizika, No 1, 195, No 215

where s is a quantity on the order of the upper limit of the momentum spectrum of the virtual x -particles. It is noted that in this version of the theory, renormalization is possible only by introducing a certain "bare" nonlinearity.

Card : 2/2

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001134



## MIRIANOSHVILI, M.

Know, protect, and develop. IUn. nat. no.9:1-2 S '61.

(MIRA 14:8)

1. Uchenyy sekretar! prezidiuma Vserossiyskogo obshchestva okhrany prirody.

(Natural resources--Study and teaching)

Successful de la company de la

MIRIANASHVILI, M.M., red.

[Froblems of gravitation; abstracts of papers] Problemy gravitatsii; tezisy dokladov. Tbilisi, Tbilisskii gos. univ., 1965. 273 p. (MIRA 18:12)

1. Sovetskaya gravitatsionnaya konferentsiya. 2d. Tiflis, 1965. 2. Chlen-korrespondent AN Gruzinskoy SSR.

I. 25778-66 EWT(1)  ACC NR. AP6016358  AUTHOR: Minimals 12	SOU	RCE CODE: UR/0251/65/039,	/003/0551/0554
oug. Initial State O	niversity (Tbilisskiy gos	ember AN GruzSSR); <u>Gobedzł</u> udarstvennyy universitet)	rishvili, H. S. 42
SOURCE: AN GruzSSR.	ng hyperbolic motion of a Soobshcheniya, v. 39, no.	· 3, 1965, 551 <b>-</b> 554	$\mathcal{B}$
VINITIVALLE SOME BIT	Thors consider that d	ple, electromagnetic field uring hyperbolic moti	
energy. Others, p. Radiation from a U. Vol 9, 41, 1964), the conclusion that panied by the radiation of an electric control of an electri	articularly Fulton an el articularly Fulton an niformly Accelerated in a detailed study o t the hyperbolic moti ation of energy Bul	ectron does not radial Rohrlich (Classical Charge, Annals of Physic the question came to on of a charge is account and Rohrlich stud	sios, o om-
Where	$-\sqrt{s^2+i^2} \text{ (for } i=0, \zeta.$	<b>- « &gt; 0)</b> ,	
Card 1/5	$\vartheta = \frac{\sqrt{a_1 + i_2}}{4}  \xi_1.$	(t)	2
	The second secon		

L 25778-66

ACC NR: AP6016358

 $(z_0)$  is a unit vector along the direction of the z axis). The field potentials, created by the charge, are L'yeonar-Vikhert(sic)

$$R_{\mu}^{\mu} = \frac{\epsilon \sigma_{\mu}^{Q}}{R^{\mu} \sigma_{\mu}^{Q}}, \quad R^{\mu} = (l - l_{Q}, \, l - l_{Q}), \tag{2}$$

and the condition of casualty  $|-i_q - R \equiv |-i_q| > 0$  guarantees that (2) is a delayed potential. The fields obtained by Fulton and Rohrlich in accordance with the casuality condition are satisfied in the region  $z \neq t > 0$  but are unstable when  $z \neq t = 0$ , since the fields for  $z \neq t = 0$  should be emitted when  $t_0 = -\infty$  if the charge is moved along a light cone by  $z = +\infty$ . Rowever, motion of the particle of the end mass along only in the physical sense. To eliminate this difficulty, but assumed that a particle in a definite interval of time  $-t \leq t \leq t$  field is cut off and it continues to move according to the inertia of its constant speed: i.e., in the region  $t \leq t \leq t$ . Formulas (1) are accurate but outside of this region

where

Card 2/5

 $=\frac{1}{k}+A, \qquad v=\frac{1}{k}$ 

.0

L 25778-66

ACC NR, AP6016358  $k = \frac{1}{\sqrt{\alpha^2 + t^2}}, \quad A = \frac{\alpha^2}{\sqrt{\alpha^2 + t^2}},$ (t' is a fixed time when cut-off of the field occurs). Consequently, if t\( \text{t'} \) and \( t \to \text{t} = \times, \) the following holds:  $Z = \frac{\alpha^2 + tt}{\sqrt{\alpha^2 + t^2}}, \qquad (3)$   $\vec{v} = \frac{1}{\sqrt{\alpha^2 + t^2}} \vec{c} = \text{const.}$ One is easily convinced that when \( t \to \to t \text{t'}, \) all these formulas are continuously converted into the Fulton and Rohrlich formulas. In the oylindrical coordinates \( \rho \text{T}, \rho, \rho \text{for Au}, \text{ in accordance with} \)

(2) and (3), the following is obtained:  $A_0 = 0 = \frac{\epsilon}{\xi_0}, \quad A_0 = \frac{\alpha_0}{\xi_0}, \quad A_0 = A_0 = 0, \quad (4)$ where  $\xi_0 = \sqrt{(1 - \epsilon_0^2)} \, \xi^0 + \xi^2 + \xi_0^2 t^2 - 2 \, \epsilon_0 \, \eta \xi + \xi_0^2 \eta^2 + 2 \, \xi_0 \, \eta \xi + \xi_0^2 \eta^2 + 2 \, \xi_0 \, \eta \xi + \xi_0^2 \eta^2 + \xi_0^2$ 

#### L 25778-66

ACC NR: AP6016358

By differentiation of (4), the authors obtain the electromagnetic field strength of the charge:

$$E_{\varphi} = 0, \quad E_{\theta} = \frac{e(x - c_{\theta}^{2}) \rho}{\xi_{\theta}^{2}}, \qquad E_{x} = \frac{e(c_{x}^{2} - 1)}{\xi_{\theta}^{2}} (c_{\theta} 1 - \chi + c_{\theta} \gamma),$$

$$H_{\theta} = 0, \quad H_{x} = 0, \quad H_{\varphi} = \frac{ec_{\theta} (x - c_{\theta}^{2}) \rho}{\xi_{\theta}^{2}} = c_{\theta} \Sigma_{\theta}. \tag{5}$$

The energy flow J, radiated uniformly by the charge, is calculated according to the well-known formula

where S is the Poynting vector

$$\vec{S} = \frac{1}{4\pi} \left[ \vec{E} \vec{H} \right] - \frac{H_{\phi}}{4\pi} \left( E_{\rho} \vec{\gamma}_{\theta} - E_{\epsilon} \vec{\rho}_{\theta} \right);$$

$$\vec{n}$$
,  $\vec{z}_0$  and  $\vec{p}_0$  are unit vectors: 
$$J = \vec{S} \vec{n} = \frac{E_V \vec{R}}{4\pi R} (E_P \vec{z}_0 - E_s \vec{p}_0).$$

After obtaining the values of H, E, and  $E_Z$  from (5) and making

L 25778-66

ACC NR. AP6016358

calculations for the energy flow, the authors obtain the following:

$$J = \frac{c^2 c_0^3 (1 - c_0^2) R^2 \sin^2 \theta}{4 \pi R^6 (1 - c_0 \cos \theta)^6}.$$

The total energy radiated at the moment to will be

$$\frac{dW}{dt_Q} = \lim_{R \to \infty} \int f R^2 d\Omega = 0.$$

Thus, the rate of radiation  $dW/dt_Q$  for any moment  $t_Q$  after out off of the field  $(t_Q > t')$  will be zero. This corresponds to the results of the works of Pauli and Laue for the region  $z \neq t = 0$ . It is easy to see that when  $t\rightarrow$  + t', formulas (3) are transformed into (1), and instead of (4) and (5), there result the formulas obtained by Fulton and Rohrlich. For the rate of radia-

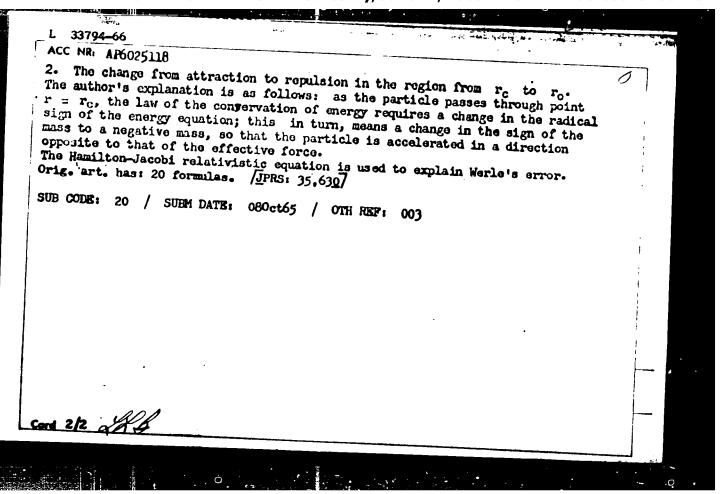
$$\frac{SN}{dt_Q} = 2/3 e^2/\omega^2.$$

Orig. art. has: 5 formulas.

SUB CODE: 20 / SUBM DATE: 25Feb65 / ORIG REF: 001 / OTH REF: 003

Card 5/5 CC

L 33794-66 EWT(1)/T IJP(c)	•
500KGK (201Rt ITP /025) / / / / / / / / / / / / / / / / / / /	ю <sup>*</sup>
Tanashvill, M. M. (Corresponding mamber AN Gruegge)	
ORG: Tbilisi State University (Tbilisskiy gosudarstvennyy universite)	
TILE: Relativists.	
TITLE: Relativistic particle motion in a scalar field	
OURCE: AN GruzSSR. Soobshcheniya, v. 41, no. 2, 1966, 293-300	•
oric TAGS: relativistic particle, particle motion, particle acceleration, Hamilton	Len
ESTRACT: The author notes that the question of the classical relativistic oftion of a particle in scalar and vector fields has been considered in the last few years in two articles by I. Werle and in an article by G. Szamosi and G. Marx. The latter considered the motion of a particle in a scalar leld and showed that in a certain region, in view of relativistic effects, traction changes to repulsion. However, this paradoxical conclusion has maximed unexplained. The present article considers the relativistic motion is following phenomena are considered:  The decrease in force to zero as a particle approaches the paint $r = r_0$ and author states that this is due to a corresponding increase in the mass of the particle to an infinitely large value.	
rd 1/2	
09/6	1
	-



ACC NR: A. 7009579

SOURCE CODE: UR/0251/66/044/000 0557/0561

AUTHOR: Mirianashvill, M. (Corresponding Hember of the Academy of Sciences Georgian SSR); Fakushadze, T. I.; Sveicsiani, L. P. ORG: Tbilisi State University (Tbilisskiy gosudarstvennyy universitet) TITLE: Mixed cadmium ferrites of spinel structure SOURCE: AN GruzSSR. Soobshcheniya, v. 44, no. 3, 1966, 557-561 TOPIC TAGS: ferrite, crystal lattice structure, saturation magnetization SUB CODE: 20 ABSTRACT: The article considers mixed cadmium ferrites, which are solic solutions of magnetic ferrites Mo Foz  $G_{I_{\bullet}}$  (Mo = Co, Mi, Cu, Mn, etc.) with a cadmium ferrite (Cd Fe $_2$  O $_4$ ). The electron configurations of zinc and cadmium ions are identical, as is also the structure of the lattice in which the  $Z_n^{2+}$  and  $Z_n^{2+}$  and  $Z_n^{2+}$  ions crystallize. The radius of the  $Z_n^{2+}$  ion is 30% greater than that of the  $Z_n^{2+}$  ion, so that for the conversion of the  $Z_n^{2+}$  ion in a mixed cadmium ferrite into an extremely magnetic ion with  $R_n^{2+}=8$   $R_n^{2+}$  there should be present in the second coordination sphere a greater number of divalent magnetic  $Z_n^{2+}$ ions with vacancies in the outer 3d shells than in the case of the zinc lon. A table is given of experimental data for the saturation magnetization of the mixed cadmium Mel-f Cdf Fe2 04 in Bohr magnetons, extrapolated for CoK. The article also presents curves expressing the theoretical dependence of the saturation magnetization of cadmium ferrites on the concentration of cadmium. Orig. art. has: 4 figures, 3 formulas and 1 table. [JPRS: 40,109]

Card 1/1

0930 1/10

MIRIANASHVILI, M.M.; COREDZHISHVILI, M.S.

Solution of equations of the gravitational field by the "falling box" method. Soob. AN Gruz. SSR 33 nc.3\*5/3-5/2 (MIRA 17:2)

i. Tbiliuskiy g aniaratvennyy universitet. 2. Chief. - Kirrangian den AN GruzSSR (for Mirianashvili).

L 14121-66 EMT(m)/EMP(t)/EMP(b) LJP(c) ACC NR: AP6000855 SOURCE CODE: UR/0181/65/007/012/3566/357 AUTHORS: Mirianashvili, Sh. M.; Nanobashvili, D. I.; Razmadze.Z. Tbilisi State University (Tsilisski gosudarstvennyy universitet) TITLE: On the possibility of transmutational doping of indium antimonide / Fizika tverdogo tela, v. 7, no. 12, 1965, 3566-3570 SOURCE: TOPIC TAGS: neutron irradiation, neutron absorption, indium compound, antimonide, impurity conductivity, Hall constant ABSTRACT: Results are presented of irradiation of indium antimonide with slow neutrons. Although the total cross section for the absorption of thermal neutrons is known for the components in InSb, theoretical calculations are made difficult by lack of data on the properties of the different impurities in the binary AIIIBV compounds. The measurements were made on n-type InSb with initial impurity atom. (donor) concentration 3.37  $\times$  10<sup>13</sup> -- 6.17  $\times$  10<sup>15</sup> cm<sup>-3</sup>, and p-type with

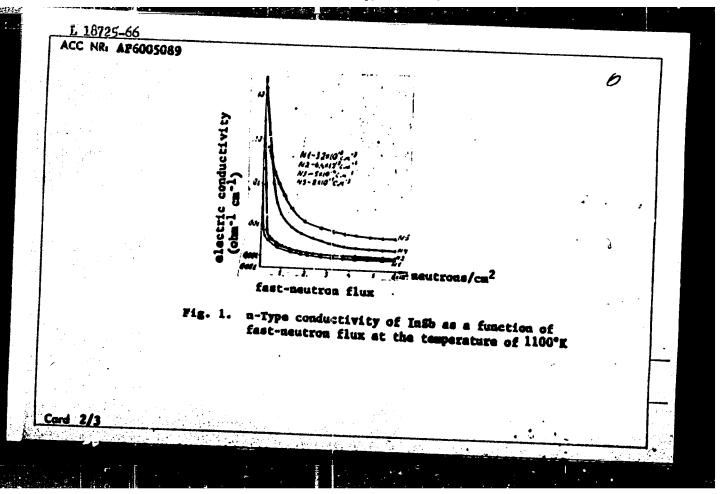
L 14121-66
ACC NR: AP6000855

**Gard 3/2** 

acceptor concentration 2.93 x  $10^{14}$  -- 4.57 x  $10^{17}$  cm<sup>-3</sup>. The irradiation was effected in the experimental channels of the reactor of the Institute of Physics of the Academy of Sciences of the Georgian SSR at temperatures 100 and 300K. The results show that it is possible to introduce by means of neutron transmutation donor impurities (Sn and Te) into InSb in any desired amount. The final conductivity of the InSb sample after annealing is governed by the balance between the carriers present in the sample prior to irradiation and the carriers produced as a result of the transmutational doping. Irradiation causes the Hall constant to behave in the same manner as for an ordinary substitutional semiconductor. It is pointed out that irradiation aimed at producing additional scattering centers has a tendency to reduce the mobility of the carriers. This effect depends on the initial concentration of the free carriers, on the degree of compensation of the samples, and on other factors. For samples with carrier density less than 1016 cm the decrease in mobility does not exceed 10 -- 15 per cent for fluxes up to 10<sup>16</sup> neut/cm<sup>2</sup>. figures, 5 formulas, and 2 tables. Orig. art. has: 3 SUB CODE: 20/ SUBM DATE: 10Jun65/ OTH REP. OO!

-irradiation of indium antimonide.	Soob. AN Gruz. SSR 38 (MIRA 18:12)	
1. Thilisskiy gosudarstvennyy universitet. Submitted Nov. 12, 1964.		

EWT(m)/EPF(n)-2/T/EWF(t JD/GO ACC NRI AP6005089 SOURCE CODE: UR/0251/65/040/003/0589/0595 AUTHOR: Mirianashvili, Sh. M.; Manobashvili, D. I.; Razmadze, Z. G. ORG: Thilissi State University (Thilisskiy gosudarstvennyy universitet) TITLE: Low-temperature irradiation of indium antimonide with fast neutrons !•6 SOURCE: AN GruzSSR. Soobshchemiya, v. 40, no. 3, 1965, 589-595 TOPIC TAGS: neutron irradiation, antimonide, indium compound, fast neutron, electric conductivity, lattice defect ABSTRACT: Monocrystalline specimens of InSb were irradiated with fast neutrons at 100-300°K in a low-temperature horizontal channel of the reactor of the Institute of Physics, Academy of Sciences Georgian SSR, with continuous measurement of electric conductivity of the spacimens. It was found (Fig. 1) that the decrease in the electric conductivity of InSb specimens of the n-type at the initial moment of irradiation occurs at a constant rate and is a linear function of the fast neutron flux. As the time of irradiation increases, however, owing to annealing and recombination of defects, the rate of variation in electric conductivity decreases. The minimal value toward which tends the conductivity of specimens of the n-type following prolonged irradiation is, contrary to the findings of W. Cleland and J. H. Grawford (Meutron Irradiation of Indium Antimonide. Phys. Rev., 95, 1954, 1177), on irradiation with Card 1/3



APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001134

L 18725-66

ACC NR: AF6005089

fast neutrons at room temperature, not common to all specimens but depends on the initial donor concentration  $N_d$ , decreasing with decreasing  $N_d$  (the specimens investigated had an initial  $N_d$  of  $= 3.2 \times 10^{13} \div 2 \times 10^{15}$  cm<sup>-3</sup> and acceptor concentration  $N_a$  of  $= 1.9 \times 10^{14} \div 1.6 \times 10^{17}$  cm<sup>-3</sup>, inclusive of specimens of the p-type with a thermoacceptor concentration of  $1.9 \times 10^{14}$  cm<sup>-3</sup> and  $1.62 \times 10^{15}$  cm<sup>-3</sup>, obtained by vacuum annealing). Fast-neutron irradiation is bound to cause in equal quantities two types of disorders of the crystalline lattice of the semiconductor: vacancies and interstitial atoms. This complicates the picture of the energy levels of the defects owing to the appearance in the forbidden zone of InSb of levels associated with the first and second ionization potentials of vacancies and intermediate atoms. The concentration of current carriers in specimens of both n- and p-types was found to sharply decrease on irradiation. This shows that low-temperature irradiation of InSb produces donor and acceptor levels located sufficiently deeply in the forbidden zone so that electric conductivity decreases. The annealing of radiation damage in the temperature range of  $100-300^{\circ}$ K confirms the author's assumption that acceptor levels get annealed much more intensively than donor levels. Orig. art. has: 2 figures, 1 table.

SUB CODE: 11, 13, 18, 20/ SUMM DATE: 30Jan65/ ORIG PEF: 002/ OTH REF: 001

Card 3/3 5/16

CHI(M)/CHY(T)/CIA SOURCE CODE: UR/0251/66/042/002/0305/0310 ACC NRI AP6027261 AUTHORS: Mirianashvili, Sh. M. (Corresponding member AN GruzSSR); Nanobeshvili, D. Razmadze, Z. ORG: Tbiliai State University (Tbilisskiy gosudarstvennyy universitat) TITLE: Possible transmutational alloying of indium antimonide 27 SOURCE: AN GruzSSR. Soobshcheniya, v. 42, no. 2, 1966, 305-310 TOPIC TAGS: semiconductor alloy, neutron bombardment, semiconductor conductivity ABSTRACT: This paper contains the results obtained from bombarding InSb be alow neutrons. The effectiveness of transmutational alloying should be determinable, but theoretical computations are complicated because few detailed data have appeared thus far in the literature concerning the properties of various impurities in the compounds  $\phi$ Although InSb has been studied in considerable detail, it is not yet clear how some impurities affect conductivity in it. Specimens of n-type InSb with an initial concentration of impurity atoms of  $N_d \approx 3.37 \cdot 10^{13} - 6.17 \cdot 10^{15}$  cm<sup>-3</sup> and p-type InSb with  $N_a \approx 2.93 \cdot 10^{14} - 4.57 \cdot 10^{17}$  cm<sup>-3</sup> were studied. These were exposed in the experimental port of the reactor at the Institute of Physics of the Academy of Sciences, Georgian SSR, at temperatures of 100 and 300 K. For removing distortions of the crystal lattice caused by fast neutrons and by impurities of rocoil atoms, the **Card 1/2** 

L 10355-67

ACC NR. AP6027261

specimens were heated to 375-400C (p-type) and 350C (n-type) after radiation, held at this temperature for 25-30 hours, and then slowly cooled to room temperature. The resulting conductivity of the InSb samples after annealing is determined by the balance between current carriers present before radiation and those formed by transmitational alloying. It was found that, after annealing, the Hall constant assumes values typical of substitutional impurity semiconductors. It was also found that, within the limits of experimental error, the concentrations of current carriers computed from the value of the absorption cross section and measured from the Hall effect are equal. The effect of bombardment tends to decrease the mobility of the current carriers. This effect depends on the initial concentration of free current carriers, on the degree of compensation, and other factors. Annealing restores mobility, but not to the initial value. The reason for this is scattering at chemical impurities introduced from nuclear transmitations. For specimens with concentrations of current carriers less than 1016 cm-3, the decline in mobility does not exceed 10--15% (for a flux up to 1016 neutrons/cm2). This paper was presented by Sh. M. Mirianashvili, corresponding member of the Academy, on 08 May 1965.

SUB CODE: 20, 11/

SUBM DATE: 08May65/

ORIG REF: 001/

OTH REF: 005

Card 2/2 5 b

APPROVED FOR RELEASE: Wednesday, June 21, 2000

CIA-RDP86-00513R001134

MIRIANASHVILI, V.A.

Apparatus for washing and drying glass tubing. Med.prom.12 no.12: 36-39 D '58 (MIRA 11:12)

1. Tollisskiy khimiko-farmatsevticheskiy zavod. (WASHING MACHINES)

VOLOSYUK, V.M.; KRYAZH, I.Z.; MIRIANASHVILI, V.V.; MOROZOV, A.F.;
KANDIYEVA, Ye.V., red.; SOKOLOVA, N.N., tekhn. red.

[There will be millions of chick. for meat] Budut milliony
miasnykh tsypliat. Literaturnala mapis' N.I.Koneva. Momiasnykh tsypliat. 1962. 53 p.

(MIRA 16:5)

(Poultry)

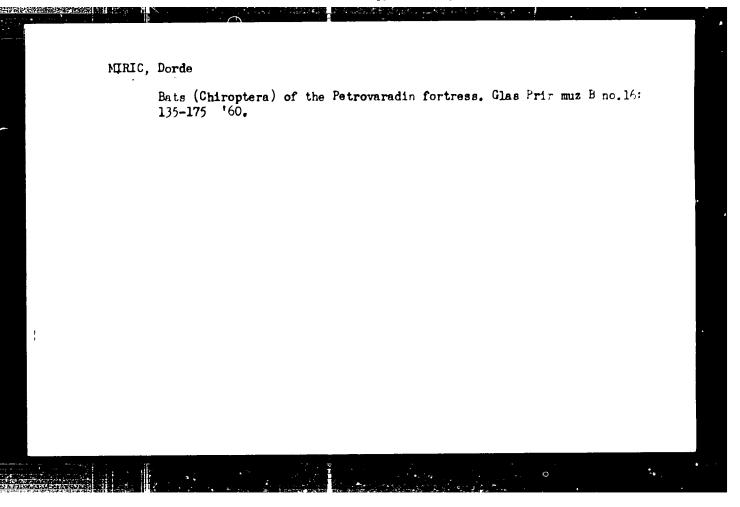
MIRIANASHVILI, Ye. V., Cand of Agric Sci — (diss) "Fundamental Agro-measures for Improving the Harvestability and Quality of Table Grapes," Tbilisi, 1959, 17 pp (Georgian Agricultural Institute) (KL, h-60, 121)

MIRIASOV, N. Z.

Miriagov, N. Z. (Physics) Influence of inner tensions on the law of approximation to saturation. P. 65

Laboratory of Magnetism June 27, 1950

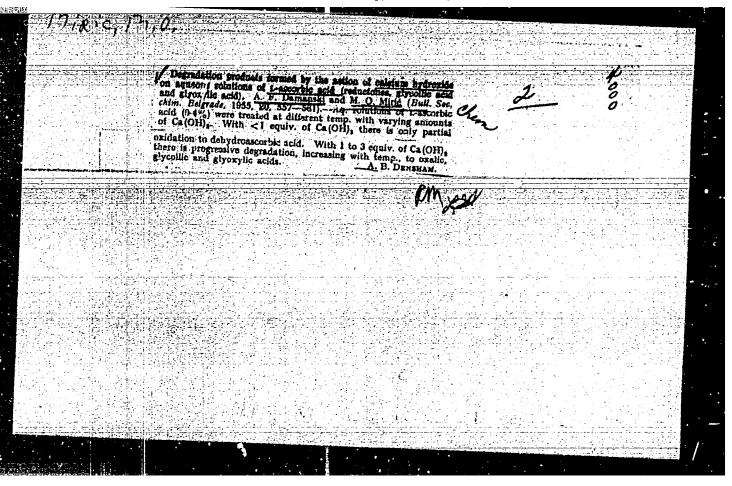
SO: Herald of the Moscow University, Series on Physics-Mathematics and Natural Sciences, No. 3, No. 5, 1951



MIRIC, D.; DULIC, B.

New propagation areas of the genus Dolomys in Yugoslavia. Bul sc Youg 7 no.3160 Je '62.

1. Prirodoslovni muzej, Beograd, Bioloski institut Sveucilista, Zagreb.



DAMANSKI, Aleksandar F.; MIRIC, Milan O.

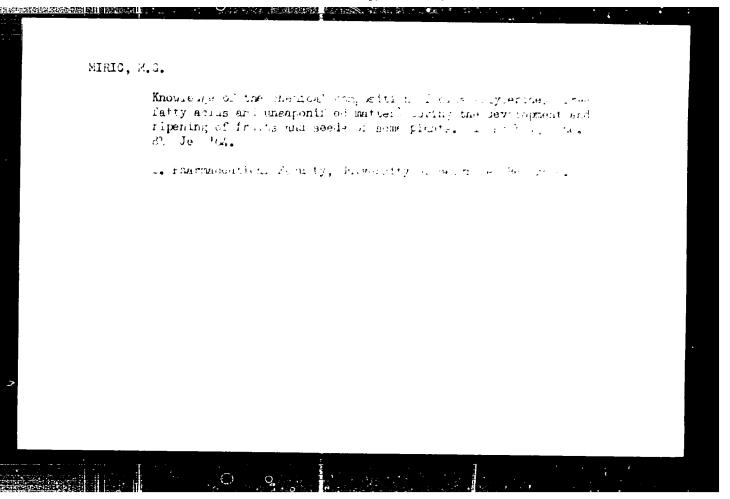
New method of obtaining isopropylidene ascorbic acid. Gl hem dr 23/24 no.5/6:271-273 '58/59. (EEAI 10:4)

1. Faramaceutski fakultet, Institut za bromatologiju, Beograd. (Isopropylidene ascorbic acid) (Ascorbic acid) (Borium) (Suspensions)

JCSIFOVIC, Mladen; MIRIC, M , inz.

Helminthosporium carbonum Ulistr., a new maize parasite
in Yugoslavia. Glan SAM 12 no.2:281 '60 [publ.'62].

1 Lopism clan Srpske akademije nauka i umetnosti, Beograd.



MIRIC, Milan O.; CUPIC, Zorica, V.

Fatty materials in the seed of Juglans regia L. during ge.—mination. Glas Hem dr 27 no. 7/8:422-426 62

1. Faculty of Pharmacy, Institute of Bromatology, Beograd.

```
MIRIC, Vera

MIRIC, Vera, Eajor, dr.; GAVRANKAPETANOVIC, Zijo, Eajor, dr.

Case of Brill's disease. Voj. san. pregl., Beogr. 11 no.3-4:109-
110 Mar-Apr 54.

1. Interno deljenje Vojne bolnice u Sarajevu.

(TYPHUS

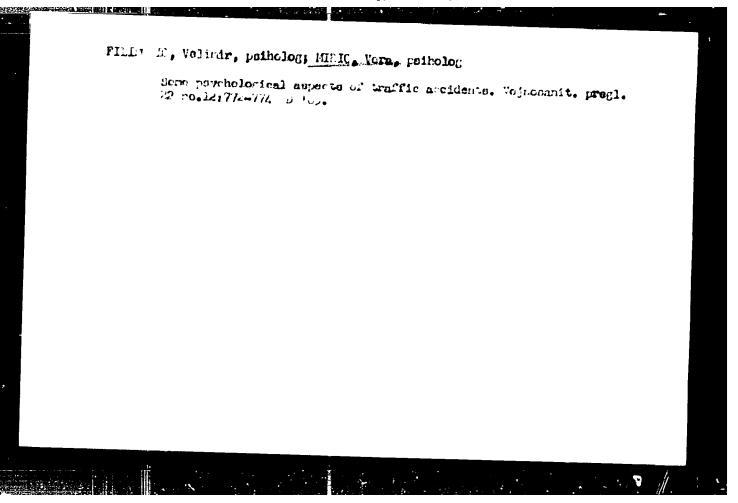
*Brill's dis.)
```

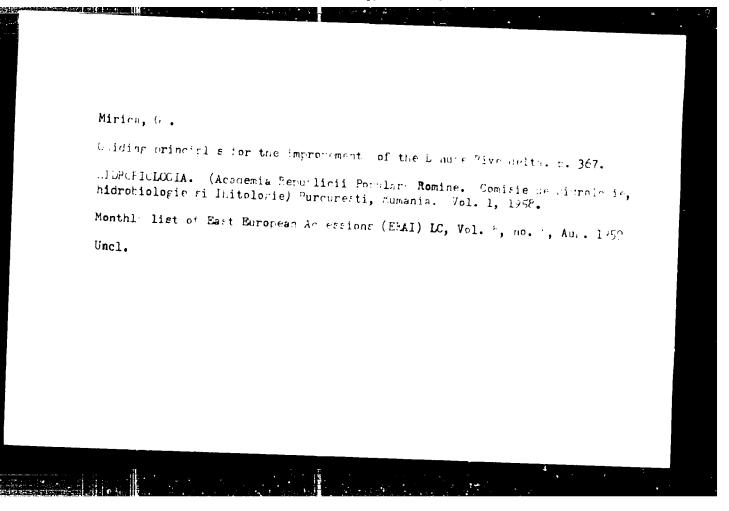
MIRIC, Vera, Sanitetski potpukovnik dr

Rheumatic fever in past 4 years (report of 793 cases). Voj.san.pregl..

Beogr. 17 no.11:1135-1142 N '60.

1. Vojna bolnica u Sarajevu, Interno odeljenje
(RHEUMATIC FEVER epidemiol)





MIRICA, G.

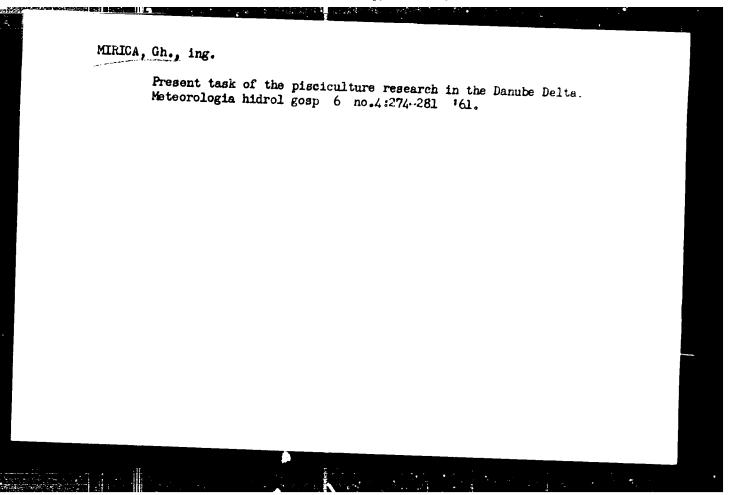
TECHNOLOGY

Periodical: REVISTA INDUSTRIEI ALIMENTARE. No. 6, 1958.

MIRICA, G. Orientation of fisheries in the inundatory region of the Danube River, in view of extending the agro-reed damming in this region. p. 1.

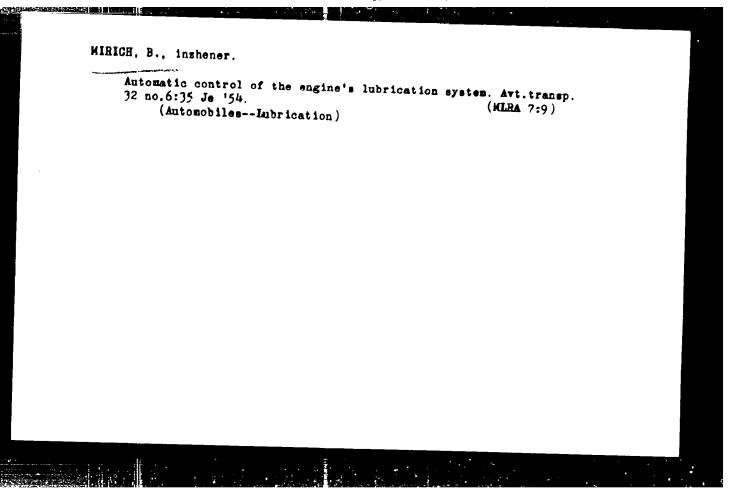
Monthly List of East Europe an Accession (EEAI) LC, Vol. 8, no. 3

March 1959 Unclass.



STANCIU, B.; CONTY IU, Ion, sef de brigada; MIRICA, Ion, maistru;
ANTOHOV, Haralambie, ing.

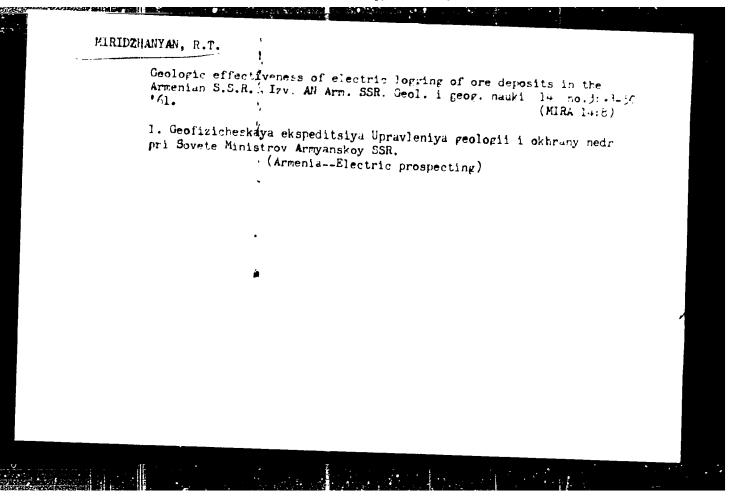
Pride in being a front-ranker. Constr Buc 16 no. 740:3
14 March 1964.



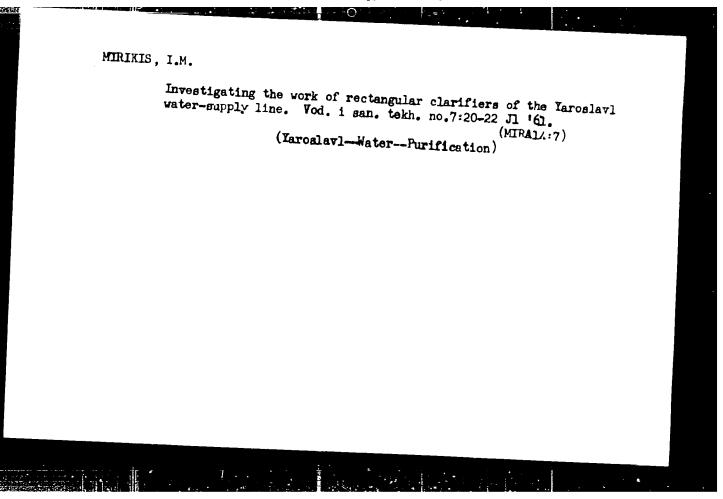
MIRICH, B., inshener.

Efficiency suggestions in the First Automobile Repair Plant in Onek. Avt. transp. 33 no.3:22-24 Mr 155. (MIRA 8:5)

(Omek - Automobiles - Repairing)



## MIRIDTHANIAN, R.T. Geothermal regionalization of the Armenian S.S.P. Izv. AS irm. SSR. Mauki o zem. 18 no.3/4:67-74 '65. (MIRA 18.9) 1. Gosudarstvennyy proisvodatvennyy geologicheski, komitet Armyanskoy SSR.

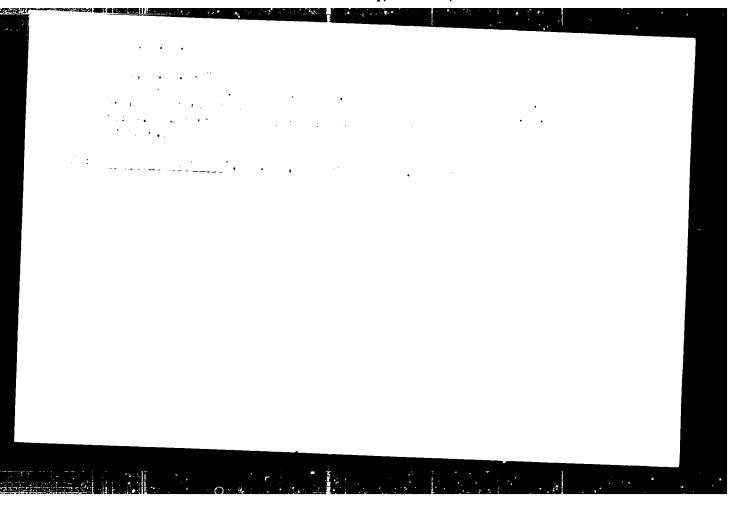


ele anci

SZAJEWSKI, Januar: GRADOWSKA, Liliana; JUSKOWA, Joanna; MIRIKOWSKA, Ewa Effect of corticosteroids on blood pipids. II. Effect of a brief administration of corticosteroids on blood lipids in dogs before the onset of methylthiouracil and cholesterol treatment and 2 months after their administration. Polskie arch.med.wewn. 30 no.7:950-953 60.

1. Z I Eliniki Chorob Wewnetrznych A. M. w Warszawie Eierownik:
Prof. dr med. A.Biernacki.
(LIPIDS blood)
(ADRENAL CORTEX HORMONES pharmacol)

(CHOLESTEROL pharmacol)
(THIOURACIL pharmacol)



MIRIMANO, G.I. BURCHULADZE, Sh.Y.

Testing the strength of a 22-meter sectional metal drilling rig.

Bazved.i okh.nedr 22 no.10:62-64 0 56. (MLRA 9:12)

1. Trest Kavkazuglegeologiya (Boring machinery)

AUTHOR:

Mirimanov, G.I., Candidate of Technical Science, and Burchuladze, Sh.V., Candidate of Technical Science.

TITLE:

Testing the Strength of Assembled Reinforced Concrete Frames

Tenon Joints. (Ispytaniye prochnosti shipovykh soyedineniyazlov sbornykh zhelezobetonnykh ram).

PERIODICAL: Beton 1 zhelezobeton, 1957, No. 1, pp. 30-32. (U.S.S.R.)

ABSTRACT:

The Tbilisi Scientific and Research Institute for Construction and Water-Power Engineering (Tbiliskiynauchno-issledovatel'skiy institut sooruzhenivi gidroenergetiki) carried out experiments on a new type of joints for reinforced concrete frames designed by

members of the Soviet Ministry of Power (B.A. Zubovi, M.N. Bagin, A.B. Chechelev and M.A. Zubova). The characteristics of this construction lie in the replacement of the older ty; e of framejoint by an assembled tenon joint. The joint is assembled and grouted with expanding cement. The strength of the grout was found

to be 102 - 113 kg/cm2. Different variants of this joint were tested, by mounting the testing apparatus across the angle of the

joint under the application of 6.100 - 8.200 kg. Cracks appeared in the cement grout. When 6.200 - 12.600 kg were applied, cracks also Card 1/2

appeared on the tenon. During the final breaking phase the tenon

TITLE:

Testing the Strength of Assembled Reinforced Concrete Premes Tenon Joints. (Ispytaniye prochnosti shipovykh soyedineniyuzlov

was pulled out from the joint. The shear stress during this phase was between 11.8 - 21.73 kg/cm<sup>2</sup>. It was concluded that the above type of tenon joint, stiffened by the expanding cement grout, could withstand bending moments from 8360 - 13750 kgm. The incorporation of steel lugs does not add to the strength of the joint. Instead it is recommended to use wedge-shaped grooves which improve the strength of the joint. If tests leading up to breaking point the tenon was pulled out with the cement grout. These joints should prove of great value to the building industry.

There are 2 photographs and ! drawings.

ASSOCIATION: ---

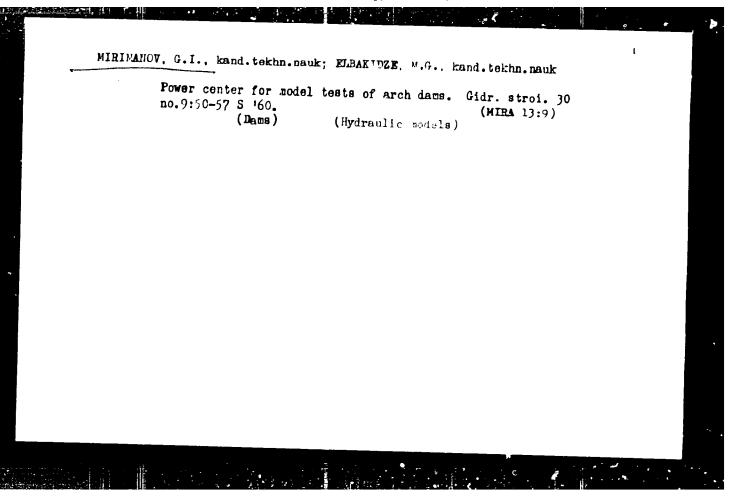
PRESENTED BY: - -

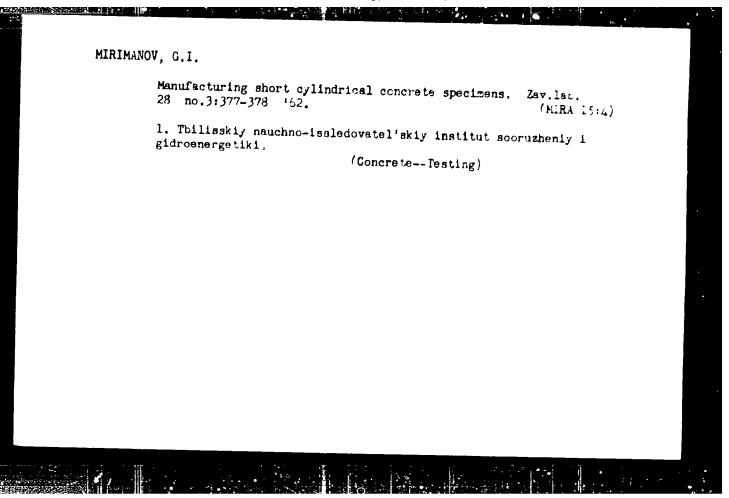
SUBMITTED:

AVAILABLE:

Library of Congress

Card 2/2





SHTENGEL MEYTER, S.V.; SMIRNOV, A.N.; SUBBOTIN, A.I.; KAGASOV, V.M.; GRINI'IN, G.K.; BEREZHNOY, I.A.; MIRIMANOV, G.I.

Exchange of experience. Zav. lab. 28 no.9:1142-1144 '62.

(MIRA 16:6)

1. Institut metallurgii Ural'skogo filiala AN SSSR (for Shtengel'meyyer). 2. Gor'kovskiy politekhnicheskiy institut (for Smirnov, Subbotin). 3. Karagandinskiy metallurgicheskiy zavod (for Kagasov, Grinkin). 4. Tbilisskiy nauchno-issledovatel'skiy institut sooruzheniy i gidroenergetiki (for Mirimanov). (Scientific apparatus and instruments)

MIRIMANOV, G.I., kend.tekhn.nauk

Determining the tensile strength of concrete by splitting cylindrical samples. Bet.1 zhel.-bet. 9 no.5:225-226 My '69. (MIRA 16:6)

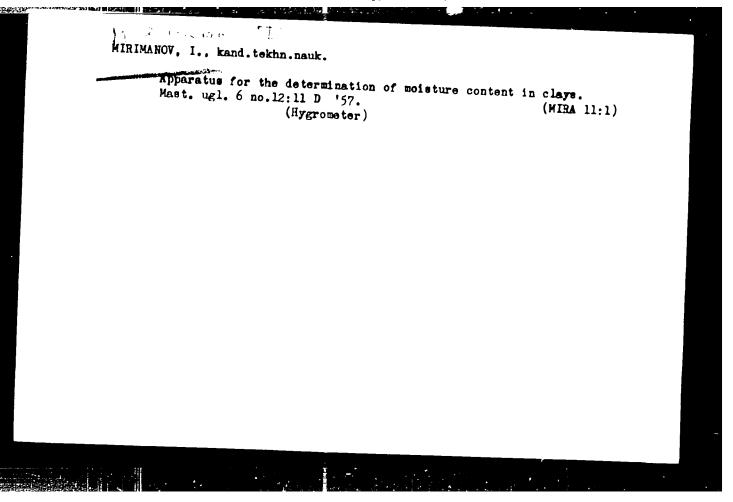
(Concrete—Testing)

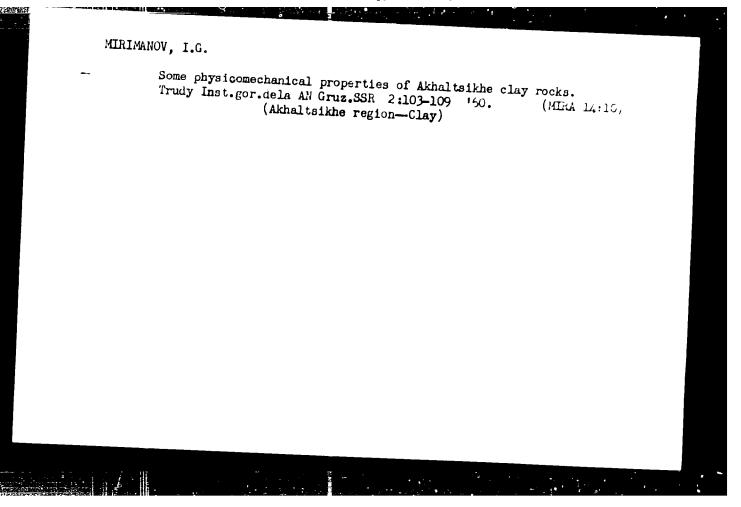
MIRIMANOV, 1. 7.

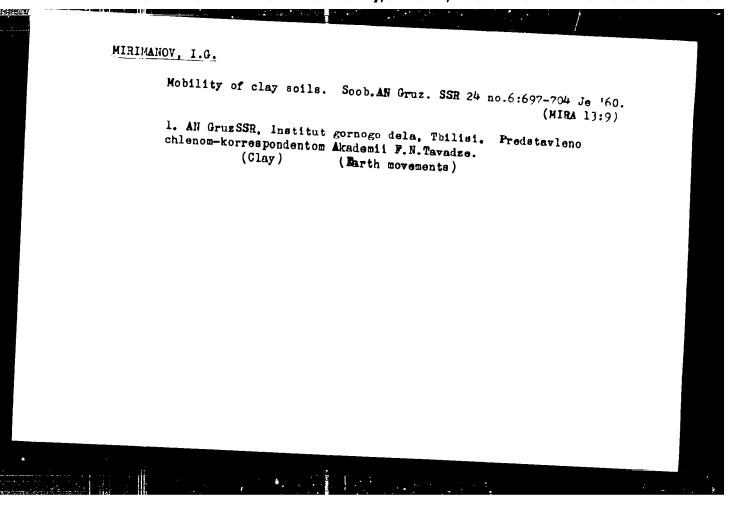
"Shear Strength of Grounds as a Stability Factor of Earth
Masses in Londslidee," Sub 7 Feb 51, Masses Order of Lenic
State Timent N. V. Loronsov.

Placertations precented for science and engineering degrees
in Moscow Juries 1951.

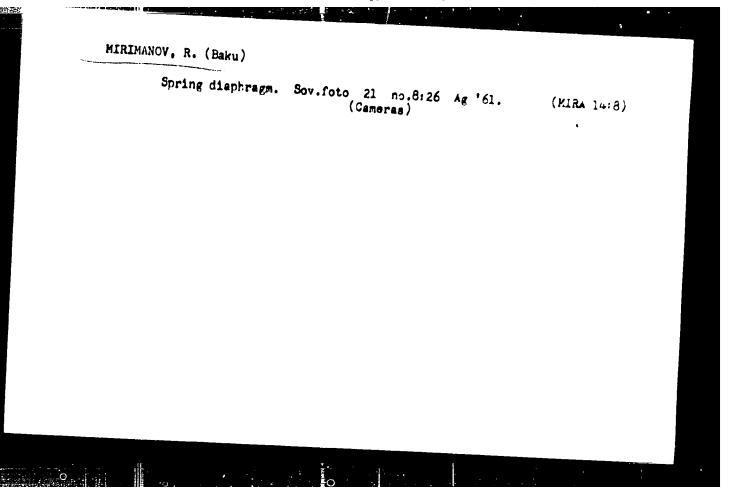
SC: Sun. No. 486, 2 May 50

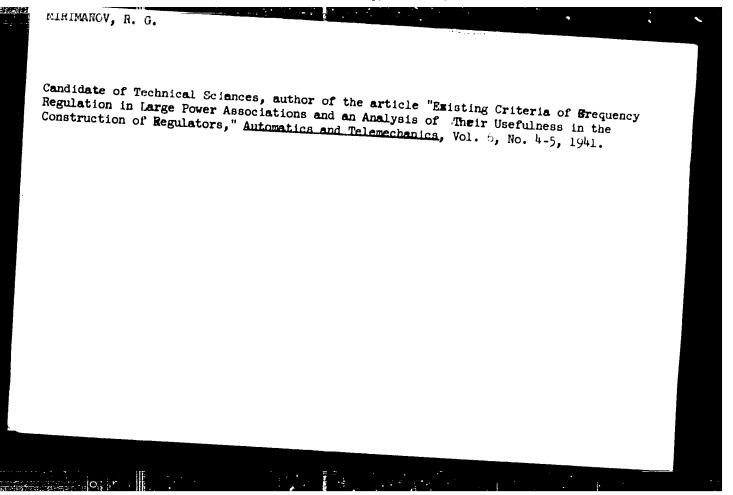


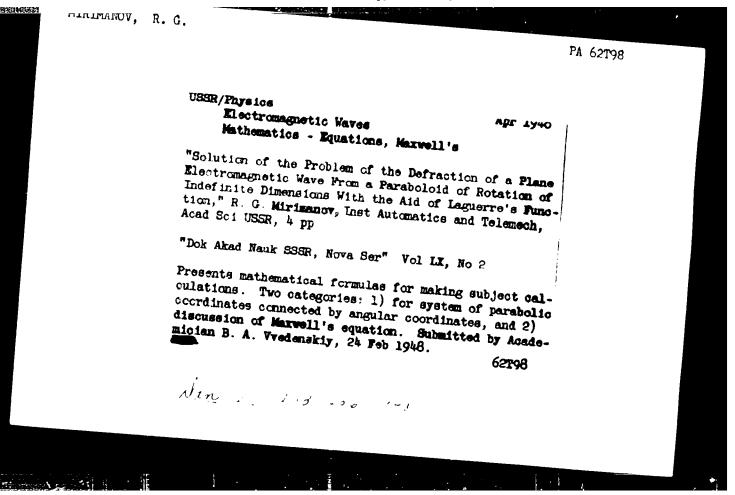


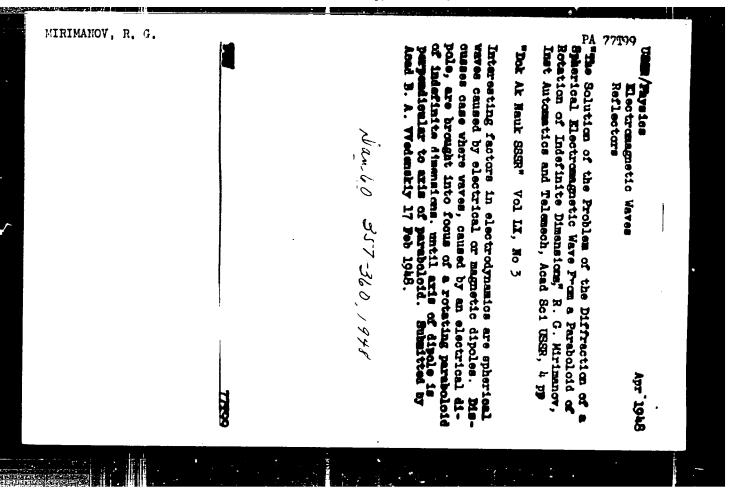


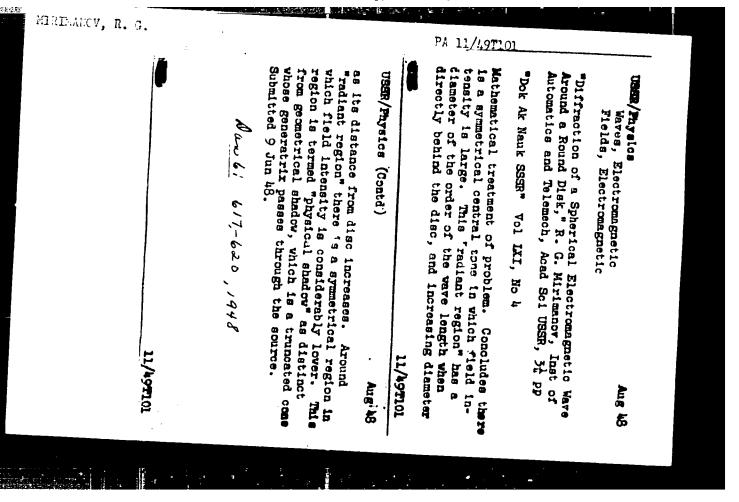
# MIRIMANOV, I.G. Studying the composition of exchange cations from the Akhaltsikhe clay rocks. Soob. AN Gruz. SSR 27 no.3:321-324 S \*(1. 1. Akademiya nauk Gruzinskoy SSR, Institut gornogo dela imeni G.A.TSulukidze, Thilisi. Predstavleno chlenom-korrespondentom AN GruzSSR F.N.Tavadze. (Akhaltsikhe regiona-Glay) (Ion exchange)

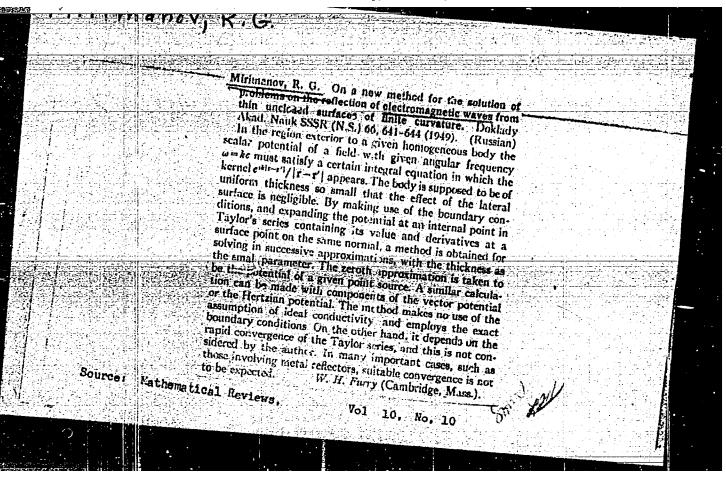


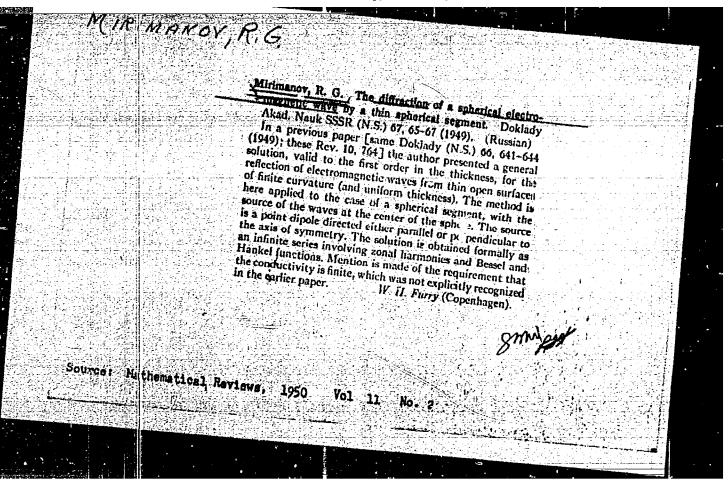


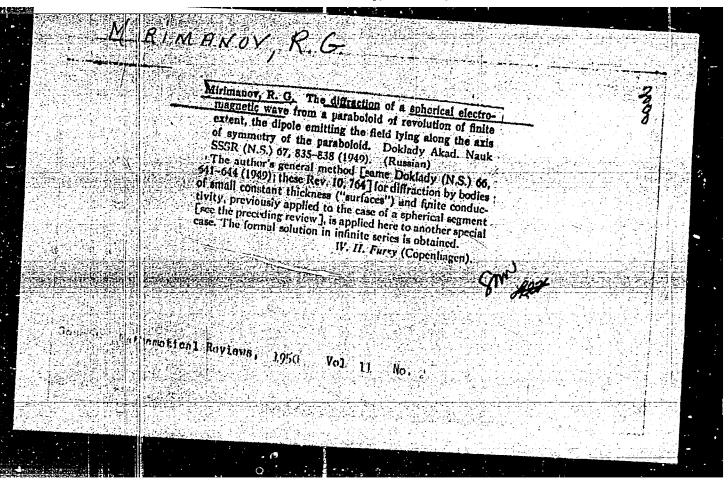


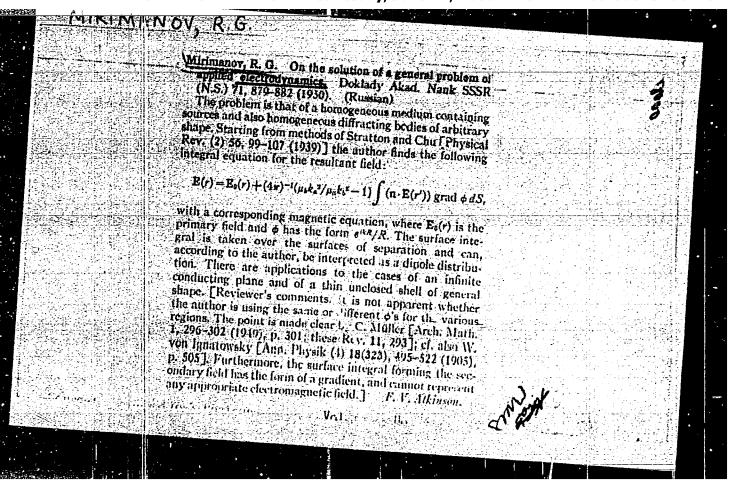




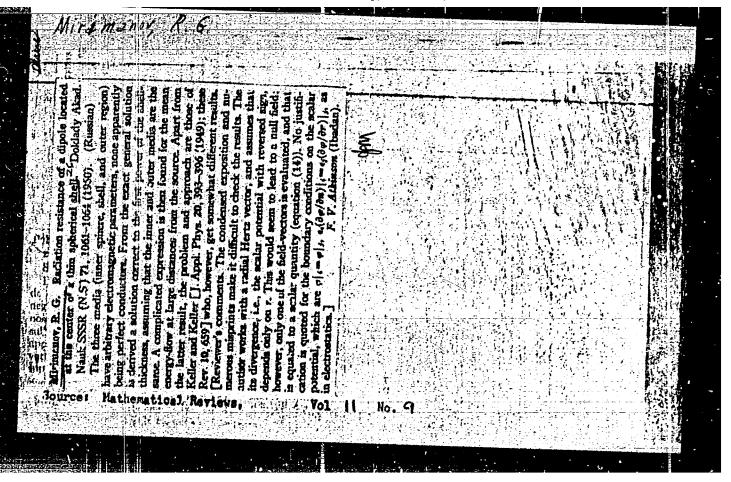




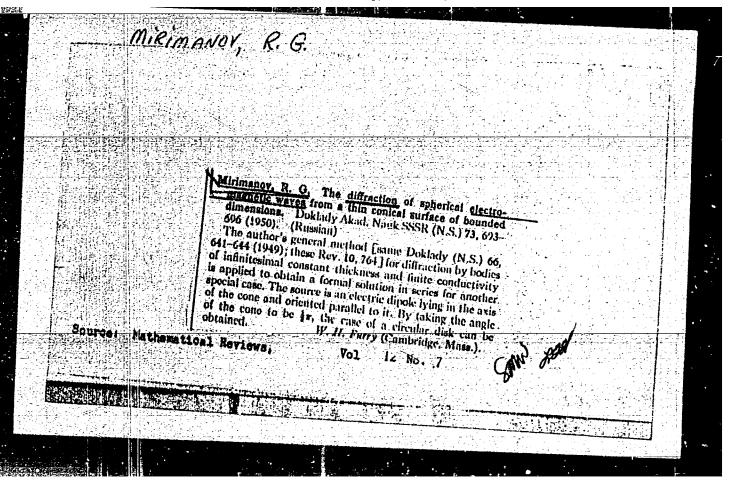


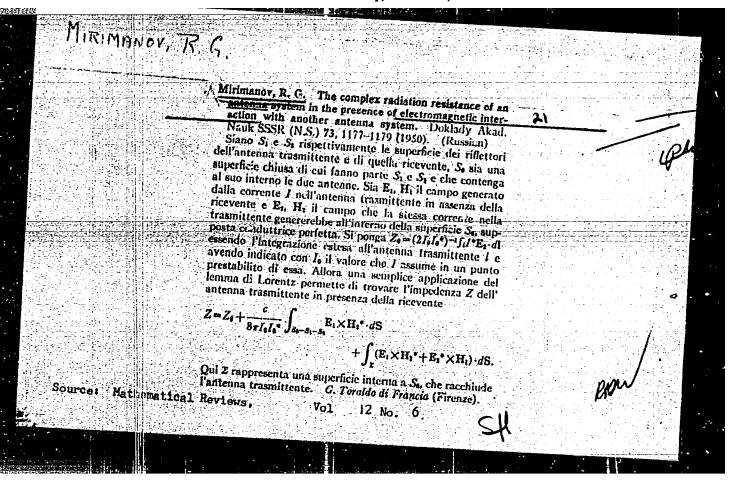


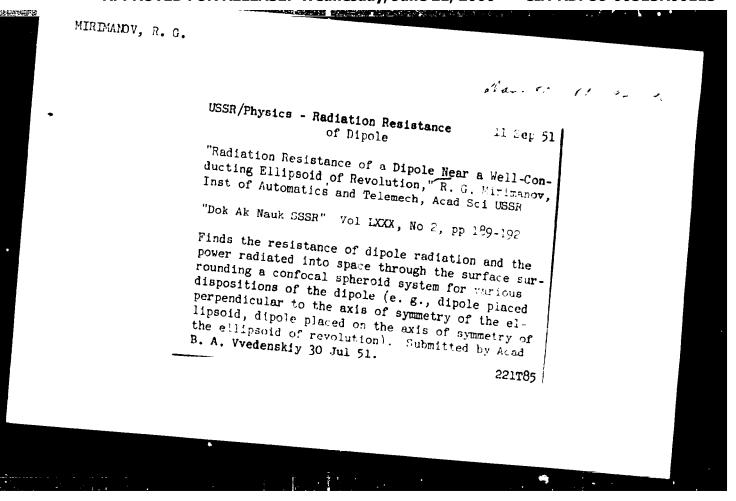
"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001134

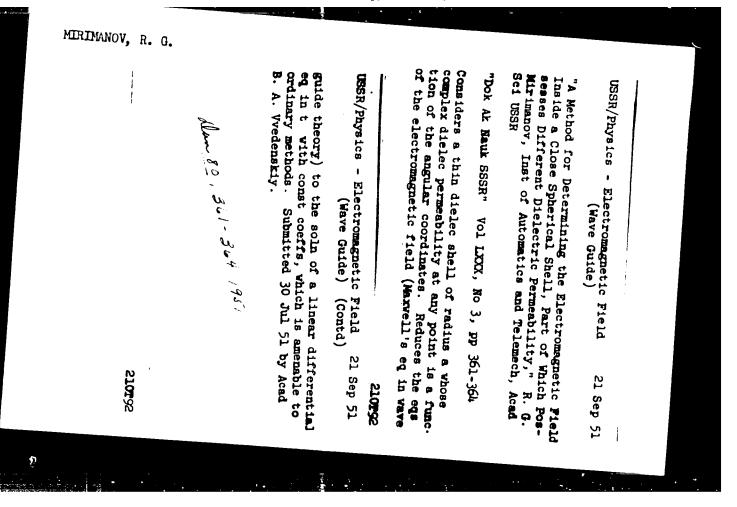


"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001134









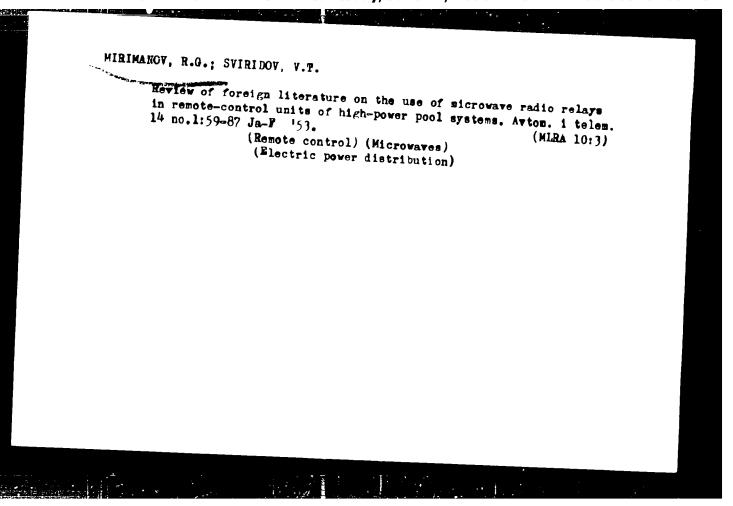
APPROVED FOR RELEASE: Wednesday, June 21, 2000

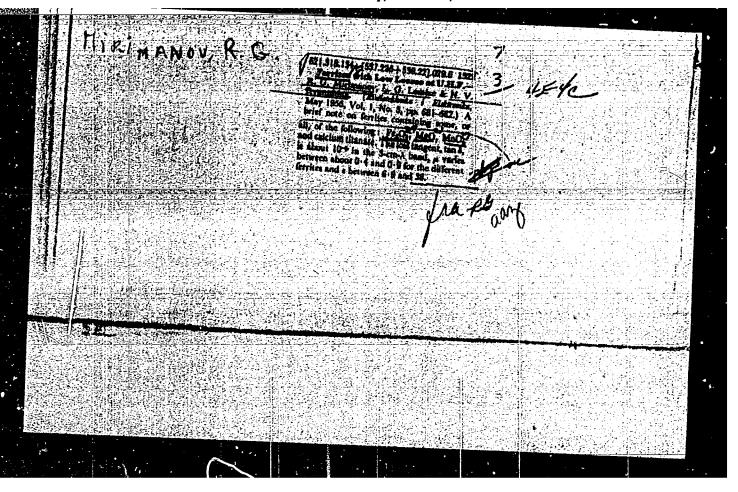
CIA-RDP86-00513R001134

MIRIMANOV, R. G.

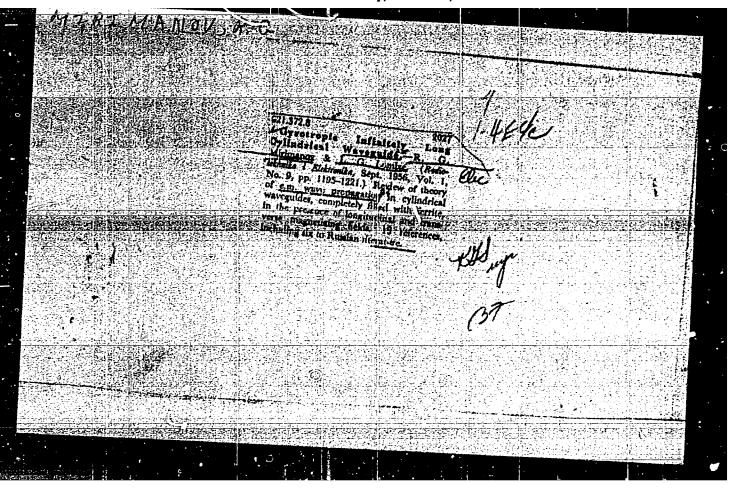
Survey of Foreign Literature: The Use of Decimeter and Centimeter Radio Relay Lines in the Telemechanical Installations of Large Power System Combines, R.G. Mirimanov and V.T. Sviridov, Avtomak i Telemak, Vol 13, no 5, pp 592-610, Sep/Oct 52.

Survey of radio relay lines, including a general discussion of such lines and descriptions of several US lines, namely the Boston-New York line, the transcontinental line, and the borneville Power System line. Lists 14 US sources.

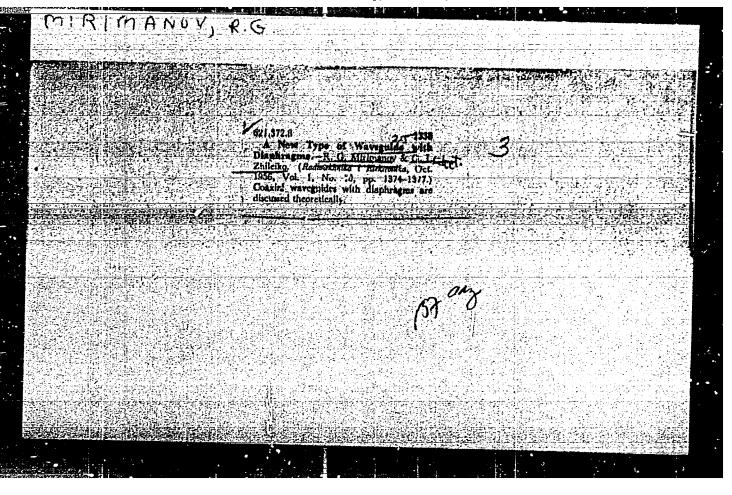




"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001134



"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001134



MIRIMANOV, R. G., and ANISIMOVA, Y. V., Institute of Radio Techniques and Electronics

"Guide cylindrique rempli partellement de ferrite employe comme un systeme a retard," a paper submitted at the International Congress on Ultra High Frequency Circuits and Antennas, Paris, France, 21-26 Oct 57.

**50:**C-3,800,391

The state of the s

AUI HOR MIRIMANOV, R.G., ZHILEYKO, G.I. TITLE Analysis of diaphragmed wave-guides of certain types PA - 2573 (Analiz nekotorykh tipov diafragmirevannykh volnevodov Rissian.) PERIODICAL Radiotekhnika i Elektronika, 1957, Vol 2, Nr 2, pp 172 -183(USSR) Received 4/1957 Reviewed 6/1957 ABSTRACT A survey of the work carried out is given. The results of this work are used for the determination of fundamental technical characteristics of the different wave conductor systems. On the basis of these characteristics the efficiency of the systems is estimated from the point of view of their application in modern technology, e.g. for the acceleration of elementary particles and for the amplification of electromagnetic high-frequency oscillations. The present work, at the same time, deals with a new coaxial waveconductor system as well as with its approximated theoretical investigation which is sufficient for the determination of the fundamental technical characteristics. The qualitative analysis of the diaphragmatized wave conductors makes it possib-

le to draw the following conclusions:

1. In the case of low currents in the electron beam (up to 0, lA) and if it is necessary to obtain important phase velocities of the conductor with disks.

2. If, in the case of large phase velocities of the wave stronger currents (some ampéres) have to be used in the electron beam two systems, according to the required shape of the beam, may

Card 1/2

Analysis of diaphragmed wave-guides of certain types. PA -2573
be applied a the coaxial wave conductor with disks upon two conductors and a rectangular wave conductors with two cogs. The advantage of these types of wave conductors consists in a low non-uniformity of the field E<sub>2</sub>. When selecting the type of the wave conductor also the influence excercised by the edge of the diaphragm of the wave conductor upon the possible increase of losses must be taken into consideration.

3. In the case of low and average currents in the beam and at not too high phase velocities a rectangular wave conductor with a crest which is distinguished by a more simple construction but demands stronger magnetic fields for the purpose of focussing may be used.

( 1 table, 2 ill. 7 citationes from Slav Publications).

ASSOCIATION
PRESENTED BY
SUBMITTED
AVAILABLE
Card 2/2

9/1956 Library of Congress

MINK INTHALLUTER

109-7-4/17

AUTHORS: Mirimanov, R.G., Anisimova, Yu. V.

TITLE: Circular Waveguide Partly Filled with a Ferrite as a Delay System. (Kruglyy volnovod, chastichno zapolnennyy ferritom, kak zamedlyayushchaya sistema).

PERIODICAL: Radiotekhnika i Elektronika, 1957, Vol.II, Nr 7, pp. 843-855 (USSR)

ABSTRACT: It is known that the phase velocity of the electromagnetic waves in the normal waveguides with ideally conducting surfaces is greater than the velocity of light. However, it is very difficult to produce an interaction of an electron beam with an incident electromagnetic wave in such a waveguide. Consequently a number of attempts have been made during the last few years by the scientists of various countries to obtain waveguide systems in which the phase velocity is effectively attenuated. A large number of such systems is already known and has found application in travelling wave tubes and backward wave tubes operating at the centimetre wavelengths. A waveguide whose internal walls are coated with a layer of a ferrite material (see Fig.1) can also be used as a system with reduced phase velocity. The Maxwell equations for the

Card 1/3

Card 2/3

109-7-4/17

Circular Waveguide Partly Filled with a Ferrite as a Delay System. the system are considered and it is shown that the electromagnetic fields in its internal region (see Region 1 of Fig.1) can be expressed by Eqs. (11) and (12). These equations have to fulfil boundary conditions expressed by Eqs. (13) to (18), from which a transcendental equation for the propagation constant of the system is derived (see Eq. (26)). The parameters of this equation are expressed by Eqs. (27) to (44). Eq. (26) is referred to as the dispersion equation and it is applicable to a large class of waveguide systems. It can be considerably simplified for a number of limiting cases, such as when the layer of ferrite is very thin (Eqs. (46) and (47)), when the ferrite medium fills the whole waveguide (Eq. (48)), or when the magnetising field is absent (Eqs. (54) and (55)). The original equations are also employed to determine the power flow along the axis of the waveguide and the resulting expression for the Region 1 (see Fig.1) is given by Eq. (57). For the Region 2 (see Fig.1) the power flow can be determined from Eq. (58). The formulae for the power flow are employed to determine the energy transfer and the electrical field component  $E_z$  across the waveguide and the resulting values are plotted in Figs.2, 3, 4, 5, 6 and 7. The Figs.4

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001134

and 5 show that a considerable part of the transmitted power

TO THE PARTY OF

Circular Waveguide Partly Filled with a Ferrite as a Delay System.

pacses across the ferrite medium.
There are 7 figures and 4 references, 2 of which are Slavic.

AVAILABLE: Library of Congress.

Card 3/3

AUTHOR: Mirimanov, R. G. 30- % 5-20/36 TITLE: On Some Problems of the Production of Millimeter and Submillimeter Waves (O nekotorykh problemakh generatsii millimetrovykh i submillimetrovykh voln) PERIODICAL: Vestnik Akademii Nauk SSSR, 1958, (USSR) Nr 5, pp 88-94 ABSTRACT: The most powerful sources of millimeter waves are the magnetrons Their power in the impulse in the long-wave range attains 100kW. But they are not suitable for waves below 3 mm. The klystron is used as a second source of waves. It is, however, inferior to the magnetron with regard to the efficiency and the attainable power which only amounts to several watts. The tubes LBV and

the production of millimeter and submillimeter waves in which the Doppler and Cherenkov effect are used, but there still exist difficulties in the acceleration technique. A similar system was suggested by the authors of this article as well as by J. I. Zhileyko. In this connection the most difficult problem is the formation of the ionic current. The author as well as D. A.

LOB are also used for it, but on this occasion difficulties with the retarding system occur. V.L. Ginzburg suggested methods for

Card 1/2

On Some Problems of the Production of Millimeter and Submillimeter Waves

30-58-5-20/36

Yakovlev made a proposal concerning this problem. G.I. Budker and A.A. Naumov also made proposals on improved cyclic electron accelerators. In the course of the last years researches on the possibility of the use of plasma for the production of millimeter waves were performed in many countries. But for this purpose unusually high concentrations of electrons must be attained in the plasma, which was hitherto not possible. Many generating systems, like for instance the molecular generators, were recently produced. Very promising are the systems in which paramagnetic spins are used. At the end the author states that the systems mentioned are by far not to be considered the only ones. On the contrary, new systems of quantum generators and amplifiers are to be expected in the near future. There are 9 references, 2 of which are Soviet.

Card 2/2

- 1. Microwaves---Propagation 2. Magnetrons--Performance
- 3. Klystrons--Performance 4. Ionic current--Propagation

AUTHORS: Mirimanov, a.G., prints, b.G.

TITLE: Some Titam to Permit to Unorall in Production of the control of the content are control of the farally effect to a cylindrical waveguide for the ferrited with var and titanian vaveguide for the ferrited with var and titanian contents. The control of the control of the control of the content are content and cylindrical waveguide for the ferrited with var and titanian contents. The control of the control of the content are content are referenced.

SUBMITTED: April 11, 1957

AVAILABLE: In brank of Congress

Card 1/1

307/109-3-7-21/13

AUTHOR: Lirimanov, R. G.

TIME: The Method of Finite Conductivity in the Diffraction Theory of Electromagnetic Waves (Constode konechnoy provodinisti v teorii difraktsii elektromagnitnyka voln)

PERIODICAL: Radiotekhnika i elektronika, 1950, Vol 3, Nr 7, p. 971-972 (USSR)

ABSTRACT: In 1947 the author became acquainted with a paper by H. Frimakoff and I. B. Keller (Ref.1), which was devoted to the investigation of the reflection of sound. The author became aware that the method used by Primakoff and Keller could be advantageously employed in the solution of the electromagnetic wave problems. In 1948 an attempt was made by the author to solve a number of diffraction problems and since then he applied the method for solving a number of different problems (see Refs.2-7). In 1950 I. B. Keller published a paper in which he applied the method of his work from 1947 to the solution of a number of electrodynamic problems. Though the mathematical apparatus employed by Keller in his second paper is different from that used by the author, the latter is of the opinion that the finite conductivity a thod should bear the made of the imimakoff-Keller method; only by

Card 1/2

137/103-3-7-21/13

The Method of Finite Conductivity in the Diffracti n Theory of Electromagnetic Waves

using their method of solving the integral-differential equation was the author able to solve very successfully a number of electromagnetic wave problems. The paper contains 9 references, 2 of which are English and 7 Soviet. (All the Soviet references relate to the previous papers published by

1. Electromagnetic waves--Diffraction 2. Diffraction--Theory 3. Mathematics

Sand 2/2

MIRIMANOV, R.G., kand.tekhn.nauk, red.; MOGILEVSKIY, Yu.A., red.;
KLIMENKO, S.V., tekhn.red.

[Millimeter and submillimeter waves; a collection of articles]
Millimetrovye i submillimetrovye volny; sbornik statei. Moskva,
Isd-vo inostr.lit-ry, 1959, 607 p. (MIRA 12:5)

(Microwaves)

## MAGAK'YAN, A.K.; MIRIMAHOVA, L.S.

Characteristics of some types of xerophytic plants on the sedimentary terrains of the Sisian District, Armenian S.S.R. Izv.AM Arm.SSR.Est.nauki no.6:25-34 '47. (MLRA 9:8)

Chlen-korrespondent AH Armyanskoy SSR (for Magak'yan).
 (Armenia--Kerophytes)

## MAGAK'YAH, A.K.: MIRIMANOVA, L.S. Alpine meadows with Parve sedge in Akhta District. Izv.AH Arm. SSR.Biol. i sel'khos.nauki. 4 no.10:935-942 '51. 1. Yerevanskiy sooveterinarnyy institut. (Akhta District--Pastures and meadows) (Sedges)

MARTINSON, Ye.N.; ALASHKEVICH, M.L.; MIRIMANOVA, V.I.; SHIRYAYEV, A.T.

Vacuum distillation units for separating substances having high boiling points. Prib.i tekh.eksp.no.2:133-136 S-0 '56. (MLRA 10:2)

1. Nauchno-issledovatel'skiy vakuumnyy institut.
(Vacuum apparatus) (Distillation apparatus)

ACC NR: AP7001954 (A) SOURCE CODE: UR/0120/66/000/006/0157/0160

AUTHOR: Alashkevich, M. L.; Mirimanova, V. I.

ORG: none

TITLE: Attaining a 10<sup>-9</sup> -torr vacuum with polyphenyl-ester steam-ejector pumps without refrigerated trap

SOURCE: Pribory i tekhnika eksperimenta, no. 6, 1966, 157-160

TOPIC TAGS: diffusion pump, high vacuum pump, vacuum ejector pump

ABSTRACT: The results are reported of studying some physico-chemical and vacuum characteristics of mixtures of isomers of a pentacyclic polyphenyl ester synthesized in the All-Union Scientific Research Institute of Petroleum Refining. The esters were tested in a 3-stage Soviet-made N-1S-2 metal pump and in a 3-stage glass pump (hookups shown). After 70-hr heating at 400C and subsequent

Card 1/2

UDC: 621.527.5